

SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore - 641 107

An Autonomous Institution

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COURSE NAME: 19EE101-BASIC ELECTRICAL & ELECTRONICS ENGINEERING

I YEAR /I SEMESTER

Unit 4: Analog Electronics

Topic : Zener Diode





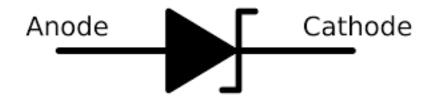


ZENER DIODE





Symbol







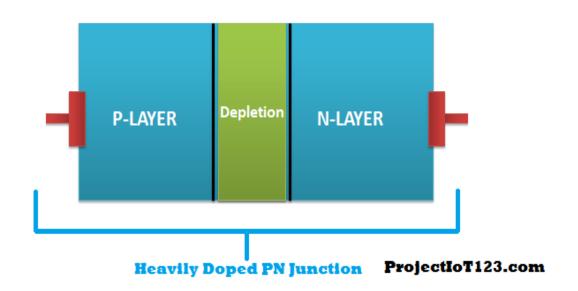


ZENER DIODE



Zener diode is basically like an ordinary PN junction diode but normally operated in reverse biased condition. But ordinary PN junction diode connected in reverse biased condition is not used as Zener diode practically.

A Zener diode is a specially designed, highly doped PN junction diode.

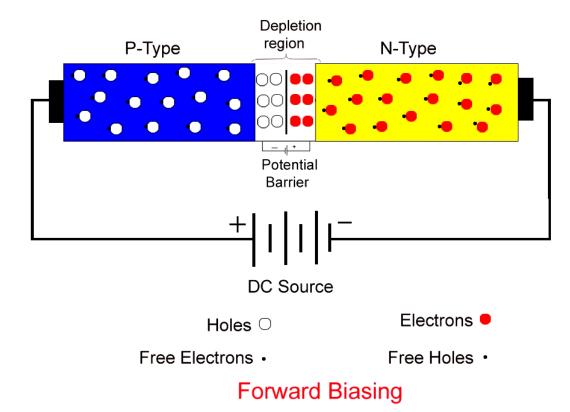


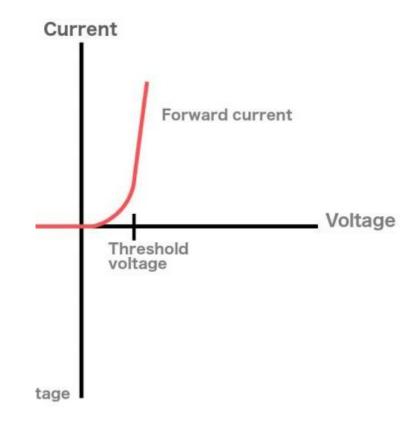




ZENER DIODE-FORWARD BIAS





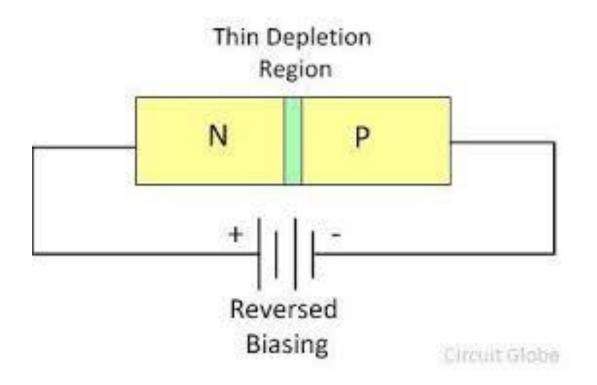


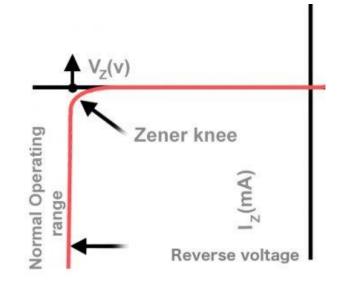




ZENER DIODE







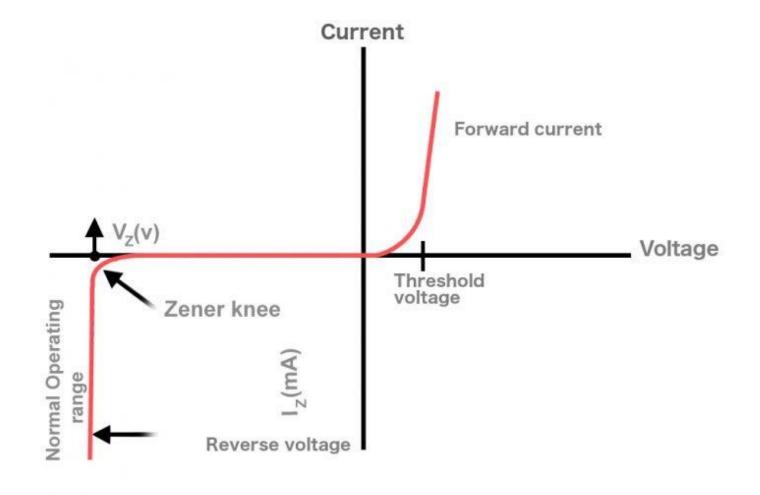






ZENER DIODE- VI CHARACTERISTICS





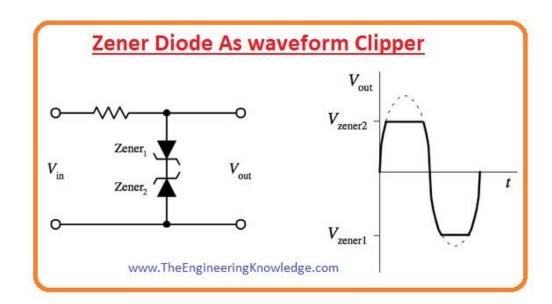






APPLICATIONS





Voltage Regulator







REFERENCES

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- 2. Bhattacharya. S.K, "Basic Electrical and Electronics Engineering", Pearson Education, (2017) UNIT I IV
- Mehta V K, Mehta Rohit, "Principles of Electrical Engineering and Electronics",
 S.Chand & Company Ltd, (2010)- UNIT I and II
- 4. Mehta V K, Mehta Rohit, "Principles of Electronics", S.Chand & Company Ltd, (2005)- UNIT IV and V

THANK YOU

